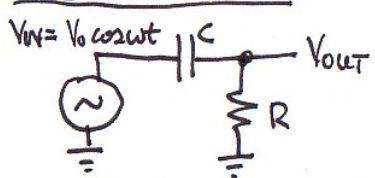
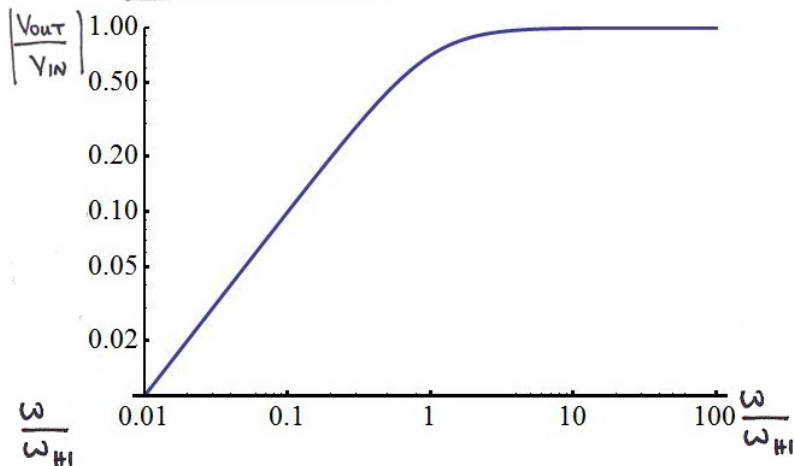
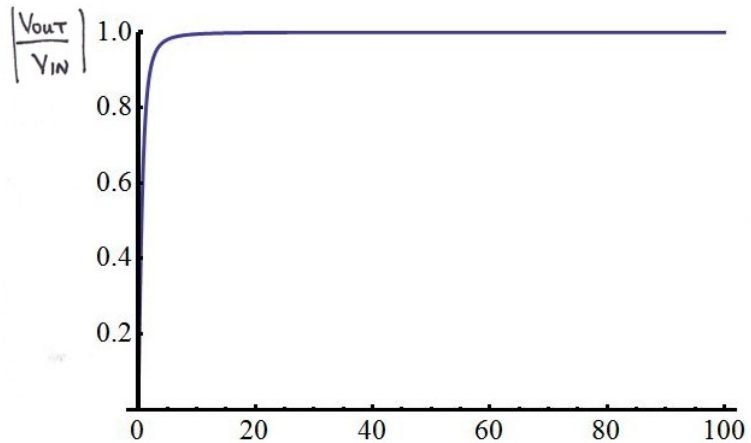


high-pass filter



$$\left| \frac{V_{OUT}}{V_{IN}} \right| = \sqrt{\frac{1}{\left(\frac{\omega_{HI}}{\omega}\right)^2 + 1}}$$

where $\omega_{HI} = \frac{1}{RC}$



Impedance of an inductor

$$\left. \begin{aligned} V_L &= L \dot{I} \\ \tilde{V} &= \tilde{I} Z \end{aligned} \right\} \rightarrow \boxed{Z_L = i\omega L}^{**}$$

Example:

